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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/670,630	09/27/2000	Jer-Chen Kuo	ALLO 4180	ALLO 4180 6172		
51413	7590 03/24/2006		EXAMINER			
MARC E. HANKIN, ESQ. 11414 THURSTON CIRCLE LOS ANGELES, CA 90049			PHAN, HANH			
			ART UNIT	PAPER NUMBER		
, -			2613			
			DATE MAILED: 02/24/2004	DATE MAIL ED: 03/04/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

					X			
		Application	n No.	Applicant(s)				
Office Action Summary		09/670,63	0	KUO ET AL.				
		Examiner		Art Unit	1			
		Hanh Pha	า	2638				
The I	MAILING DATE of this commun			correspondence a	ddress			
Period for Rep	-							
WHICHEVE - Extensions of after SIX (6) M - If NO period fe - Failure to reply Any reply rece	NED STATUTORY PERIOD F R IS LONGER, FROM THE M time may be available under the provisions ONTHS from the mailing date of this common reply is specified above, the maximum strain within the set or extended period for reply tived by the Office later than three months at term adjustment. See 37 CFR 1.704(b).	IAILING DATE OF TH of 37 CFR 1.136(a). In no even nunication. atutory period will apply and wi will, by statute, cause the appl	IS COMMUNICATIO Int, however, may a reply be to Expire SIX (6) MONTHS from ication to become ABANDON	ON. timely filed m the mailing date of this (IED (35 U.S.C. § 133).				
Status								
1) Respo	ensive to communication(s) file	ed on 08 August 2005						
<u>'</u>		2b)⊠ This action is n						
3)☐ Since								
closed	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of	Claims							
•	(s) 1-12 is/are pending in the			•				
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
•	 Claim(s) is/are allowed. Claim(s) 1 and 7-12 is/are rejected. Claim(s) 2-6 is/are objected to. Claim(s) are subject to restriction and/or election requirement. 							
•								
Application Pa	pers							
· ·		e Examiner						
	9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
· ·	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replac	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)∏ The oa	ath or declaration is objected t	o by the Examiner. No	te the attached Offic	e Action or form P	TO-152.			
Priority under	35 U.S.C. § 119							
a)□ AII 1.□ 2.□ 3.□	wledgment is made of a claim b) Some * c) None of: Certified copies of the priority Certified copies of the priority Copies of the certified copies application from the Internation e attached detailed Office action	documents have bee documents have bee of the priority docume onal Bureau (PCT Rul	n received. n received in Applica ents have been recei e 17.2(a)).	ation No ved in this Nationa	ıl Stage			
Attachment(s) 1) Notice of Ref 2) Notice of Dra 3) Information D	erences Cited (PTO-892) ftsperson's Patent Drawing Review (Filipsclosure Statement(s) (PTO-1449 or Mail Date	PTO-948)	4) Interview Summal Paper No(s)/Mail 5) Notice of Informal 6) Other:	ry (PTO-413) Date	⁻ O-152)			

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DETAILED ACTION

1. This Office Action is responsive to the Amendment filed on 08/08/2005.

2. Applicant's election with traverse of Group I directed to claims 1-12 in the reply filed on 11/30/2005 is acknowledged. The traversal is on the ground(s) that there does not seem to be any good faith reason for an Election/Restriction Requirement to be sent out after more than five years of pendency and substantive examination on the merits. This is not found persuasive because 37 CFR 1.142(a), second sentence indicates that a restriction requirement will normally be made before any action upon the merits; however, it may be made at any time before final action. This means the examiner should make a proper requirement as early as possible in the prosecution, in the first action if possible, otherwise, as soon as the need for a proper requirement develops.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1 and 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masucci et al (US Patent No. 6,498,667) in view of Takai et al (US Patent No. 6,619,865).

Regarding claims 1 and 8-11, referring to Figure 1, Masucci discloses an optical communication network comprising :

an optical transmission line (i.e., optical transmission 16, Fig. 1);

an optical line terminal (i.e., central terminal 12, Fig. 1) connected to the optical transmission line;

a first plurality of optical network units (i.e., remote terminals 14, Fig. 1) connected to the optical line terminal (12, Fig. 1) and configured for optically transmitting TDMA signals of a first wavelength (i.e., optical carrier OC 3, col. 4, lines 1-8) to the optical line terminal (12, Fig. 1) through the optical transmission line (16, Fig. 1)(col. 3, lines 30-67 and col. 4, lines 1-64).

Masucci differs from claims 1 and 8-11 in that he fails to teach a second plurality of optical network units connected to the optical line terminal and configured for optically transmitting TDMA signals of a second wavelength different than the first wavelength to the optical line terminal through the optical transmission line. However, Takai in US Patent No. 6,619,865 teaches a second plurality of optical network units (i.e., terminals 11-1F, Fig. 4) connected to the optical line terminal and configured for optically transmitting TDMA signals of a second wavelength (i.e., second wavelength λ of, Fig. 4) different than the first wavelength (i.e., first wavelength λ ov, Fig. 4) to the optical line terminal through the optical transmission line (Fig. 4, col. 5, lines 4-36). Therefore, it

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would have been obvious to one having skill in the art at the time the invention was made to incorporate the second plurality of optical network units connected to the optical line terminal and configured for optically transmitting TDMA signals of a second wavelength different than the first wavelength to the optical line terminal through the optical transmission line as taught by Takai in the system of Masucci. One of ordinary skill in the art would have been motivated to do this since Takai suggests in column 5, lines 4-36 that using such the second plurality of optical network units connected to the optical line terminal and configured for optically transmitting TDMA signals of a second wavelength different than the first wavelength to the optical line terminal through the optical transmission line have advantage of allowing reducing the interference between the signals, providing the optical communication system with high speed and high capacity and reducing the cost of the system.

Regarding claim 7, Masucci further teaches the optical transmission line (16, Fig. 1) is fiber optic line.

Regarding claim 12, Masucci further teaches the network has an architecture selected from the group consisting of ring, tree and bus architectures (i.e., tree architecture, Fig. 1).

5. Claims 1 and 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Proctor (US Patent No. 5,872,645) in view of Takai et al (US Patent No. 6,619,865).

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Regarding claims 1 and 8-11, referring to Figures 1A and 1C, Proctor discloses an optical communication network comprising an optical transmission line, an optical line terminal (i.e., headend, Fig. 1C) connected to the optical transmission line, and N optical network units (i.e., NTEs and ONUs, Fig. 1C), each of the optical network units being connected to a communicating with the optical line terminal (HEADEND, Fig. 1C) at one different wavelength using a TDMA protocol (see col. 2, lines 17-26, col. 3, lines 3-16 and see abstract section).

Proctor differs from claims 1 and 8-11 in that he fails to teach each of the optical network units being connected to a communicating with the optical line terminal at one of M different wavelengths using a TDMA protocol where N and M are integers and 1<M<N. However, Takai in US Patent No. 6,619,865 teaches each of the optical network units being connected to a communicating with the optical line terminal at one of M different wavelengths using a TDMA protocol where N and M are integers and 1<M<N (Fig. 4, col. 5, lines 4-36). Therefore, it would have been obvious to one having skill in the art at the time the invention was made to incorporate the each of the optical network units being connected to a communicating with the optical line terminal at one of M different wavelengths using a TDMA protocol where N and M are integers and 1<M<N as taught by Takai in the system of Proctor. One of ordinary skill in the art would have been motivated to do this since Takai suggests in column 5, lines 4-36 that using such the each of the optical network units being connected to a communicating with the optical line terminal at one of M different wavelengths using a TDMA protocol where N and M are integers and 1<M<N have advantage of allowing reducing the interference

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between the signals, providing the optical communication system with high speed and high capacity and reducing the cost of the system.

Regarding claim 7, Proctor further teaches the optical transmission line (Fig. 1C) is fiber optic line.

Regarding claim 12, Proctor further teaches the network has an architecture selected from the group consisting of ring, tree and bus architectures (i.e., tree architecture, Fig. 1C).

Allowable Subject Matter

6. Claims 2-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh Phan whose telephone number is (571)272-3035.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan, can be reached on (571)272-3022. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-4700.

HANH PHAN
PRIMARY EXAMINER